

PATENT ABSTRACTS OF JAPAN

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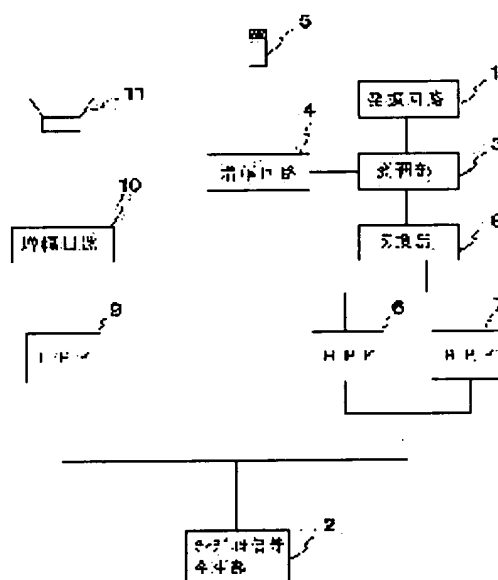
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(54) PARAMETRIC SPEAKER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a parametric speaker with natural sound quality offering ease of hearing that employs a parametric effect to demodulate a modulated signal in a medium such as air by reducing a noise intruded into a demodulated reproduced sound.

SOLUTION: The speaker is provided with a filter 9 that cuts off a low sound frequency component of a modulated signal, a filter that passes components with a prescribed frequency range of an audible sound frequency band, and a changeover device 8 that properly selects the filters. Frequency components that are hardly heard by human ears in the case of demodulation are cut off in advance, an ultrasonic wave is modulated and emitted in the air, then a difference sound of each frequency component being a cause to a noise is eliminated and a low sound frequency component among the cut-off frequency components is reproduced by an audible sound speaker at the same time so as to compensate the low sound frequency component less contained in the reproduced sound caused by the parametric array effect.



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